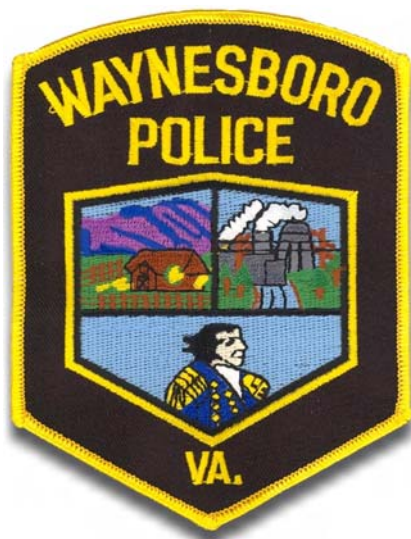


# *Mobile Computing The Waynesboro Experience*



*William R Maki*  
*Deputy Chief of Police*

- **Use of computers has steadily evolved**
- **We are living in the information age**
- **Computers are becoming the business standard in nearly all enterprises to include emergency services**

- **Computers are going to be a part of our activities in the future**
- **We need to ensure we don't limit the capabilities of computers like exist with radio communication**

## **The Police Mission**

- **Prevent crime**
- **Investigate crime**
- **Maintain public order**
- **Work smoothly with others to ensure the business of government is done effectively**

- **Collaboration requires communication**
- **CapWIN is an interoperability tool and will enhance communication:**
  - Across jurisdictions
  - Across disciplines

- **What is CapWIN?**
- **How does CapWIN work?**
- **What do you need to do to use CapWIN?**

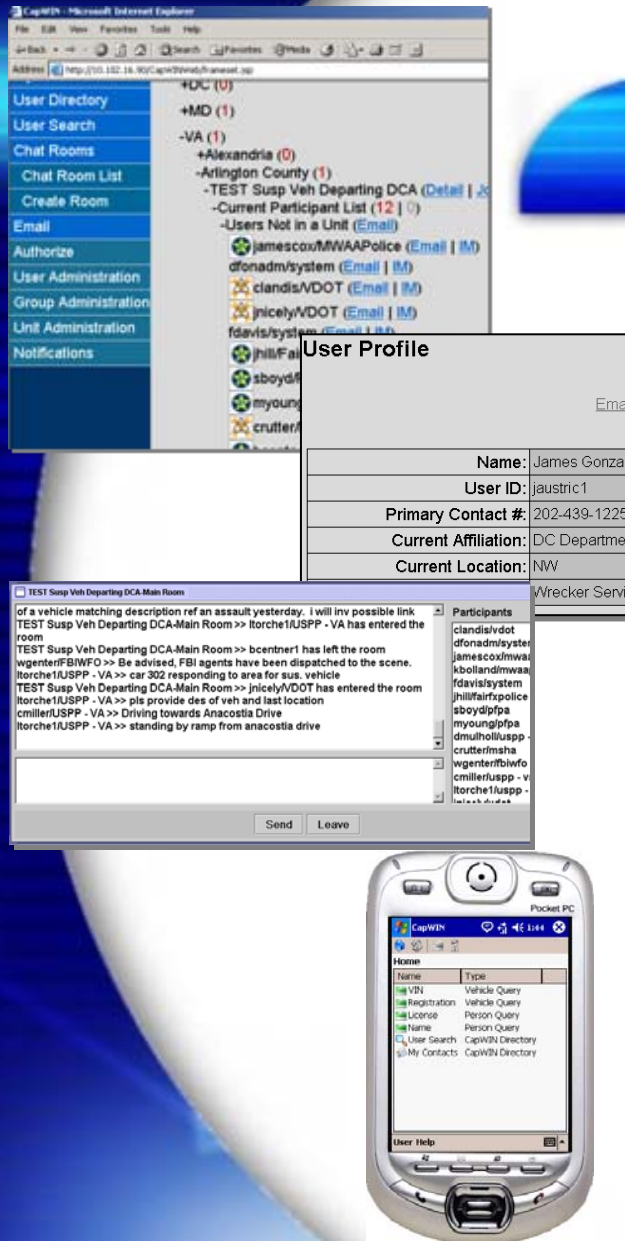


# The Need for CapWIN

*Multi-Jurisdictional and Multi-Disciplinary Interoperability is the Only Way to Ensure an Effective Response – A Capability Not Available in the Early Days After Hurricane Katrina*



# CapWIN Overview



- A Suite of Tools for Mobile and fixed Station First Responders & Support Staff Currently Enabling:
  - Incident Management & Coordination Across Agencies, Regions & Disciplines
  - One-to-One & Group Public and Private Communication (messaging)
  - Document/Image Hosting to Support Specific Incidents
  - A Robust Directory of *Individual* First Responders “411 for Public Safety”
  - Access to Multiple State and Federal Law Enforcement Criminal Databases and HAZMAT information (WISER)
- A Secure, Regional Information Hub Connecting Participants Across Multiple Public Safety Networks
- A Local, State, and Federal Governance Partnership



# CapWIN's User Community

- Public Safety First Responders  
(Initial Focus)

- DC, MD, VA, Federal, Regional



- Fire



- EMS



- Police



- Transportation

- Support Personnel (Fixed Station)

- Emergency Operations Centers

- Agency Support Staff

## CapWIN Users – September 2005

### Virginia

- Virginia State Police
- Alexandria Police Department
- Fairfax County Police Department
- Fairfax County Fire and Rescue
- Fairfax County Emergency Management
- Fairfax City Police Department
- Franklin Police Department
- Prince William County Police
- Virginia Department of Transportation
- Waynesboro Police Department
- Waynesboro Fire Department
- Waynesboro Emergency Management

### Maryland

- Maryland State Police
- Maryland State Highway Administration
- Maryland Transportation Authority Police
- Maryland Department of Transportation
- Montgomery County Police
- Prince George's County Police Department
- Prince George's County Fire and EMS
- Prince George's County Public Safety Communications

### D.C./Federal/Regional

- Metropolitan Police Department
- District Department of Transportation
- District Fire/EMS
- United States Park Police
- Pentagon Force Protection Agency Police (PFPA)
- PFPA Chemical, Biological, Radiological, and Nuclear Directorate
- PFPA Anti-Terror/Force Protection
- Federal Bureau of Investigations Washington Field Office
- Central Intelligence Agency Police
- US Capitol Police
- Metropolitan Washington Airports Authority Police Department
- Metropolitan Washington Airports Authority Fire and Rescue

VIRGINIA

MARYLAND

# Recent Pre-Planned Events

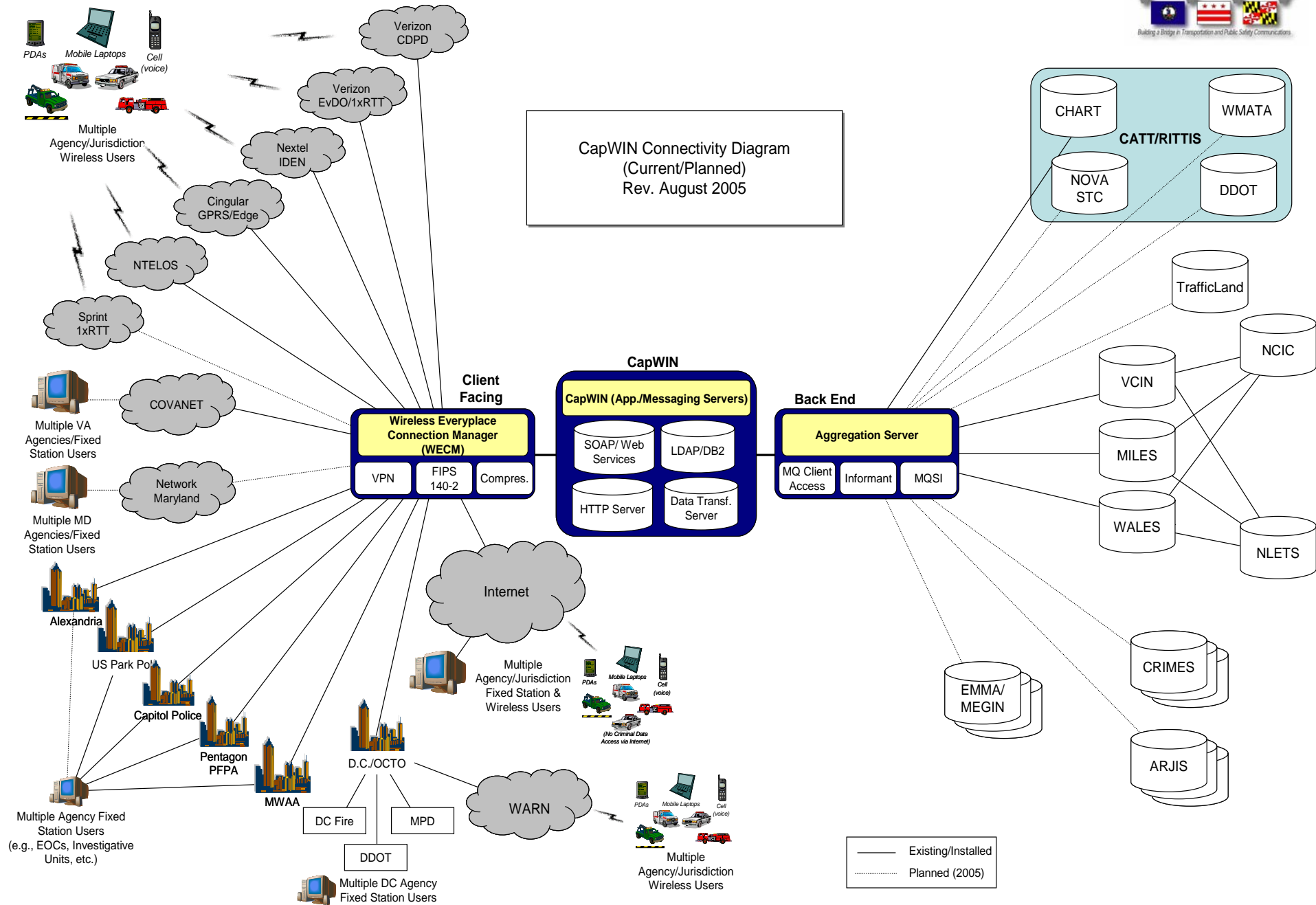
- **September 11 Memorial Activities**
  - Facilitated Multi-Agency Coordination and Management of Various Memorial Events Including the Freedom Walk, the National Mall Concert and Tour de Force Bike Rally
  - CapWIN Staff Provided Operational Support to Agencies by Documenting and Relaying Key Information into the CapWIN Incident Structure
- **Woodrow Wilson Bridge Closures**
  - Multi-Day CapWIN Incidents were Created to Support the Closures and Associated Detours Involving the Woodrow Wilson Bridge Connecting Virginia and Maryland
  - Transportation and Law Enforcement Agencies Coordinated Road Closures, Traffic Mitigation and Construction Activities Over Three-Day Periods
- **Operation Gallant Fox III**
  - A CapWIN Incident was Created by the Pentagon Force Protection Agency (PFPA) to Coordinate PFPA's Role in Supporting the Gallant Fox III Operational Exercise with Other Supporting Agencies, Notably Arlington County Police and Fire
  - As part of the Incident, CapWIN Demonstrated its Ability to Host Several PFPA/CBRN Plume Images Which were thereby Available to Agencies at the 5 CapWIN Locations
- **July 4<sup>th</sup> 2005 Memorial Events**
  - All Three Jurisdictions Representing Law Enforcement, Transportation and Fire/EMS Agencies at the Local, State and Federal Levels Participated in the Incident
  - Multiple Incident "Sub-Rooms" were Created to Manage Discussions Over a Range of Topic Areas, Including Transportation and Event Logistics

## Daily Operations

- CapWIN Continues to be Used Daily and Operationally by Participating Agencies, Primarily Law Enforcement
- Beyond Planned Events & Exercises, the Benefits of Interoperability are Already Being Realized Through CapWIN, Including Cross Jurisdictional / Cross Discipline Coordination, Incident Participation and Monitoring, and Global Directory Use (Easily Identifying Resources Across Agencies)



CapWIN Connectivity Diagram  
(Current/Planned)  
Rev. August 2005



# CapWIN Uses in the NCR



*Lt. David Mulholland, United States Park Police*

## Next Steps – 2005/2006



2005-2006

- Continue CapWIN Deployment to Additional Public Safety Agencies Across Virginia, Maryland, D.C., and the Federal Government
- Implement/Demonstrate Additional System Capability, Including:
  - Improved Client (CapWIN V2) Designed to Better Compliment Users with Existing Mobile Data Systems and/or with Slower Connection Speeds
  - Prototype Computer Aided Dispatch (CAD) Data Sharing Across Jurisdictions – Focus on Fire/EMS Data Initially
  - Begin Implementation of Local File Sharing Across various public safety, transportation and additional local, state, & Federal Databases, as Required
  - Prototype Event-Based Notifications/Alerts (Into and From the CapWIN System)
  - Demonstrate Future Capabilities Including Voice & Image Integration
- Expand Role of CapWIN Executive Board to Other Regional Initiatives, e.g., Regional Transportation Coordination

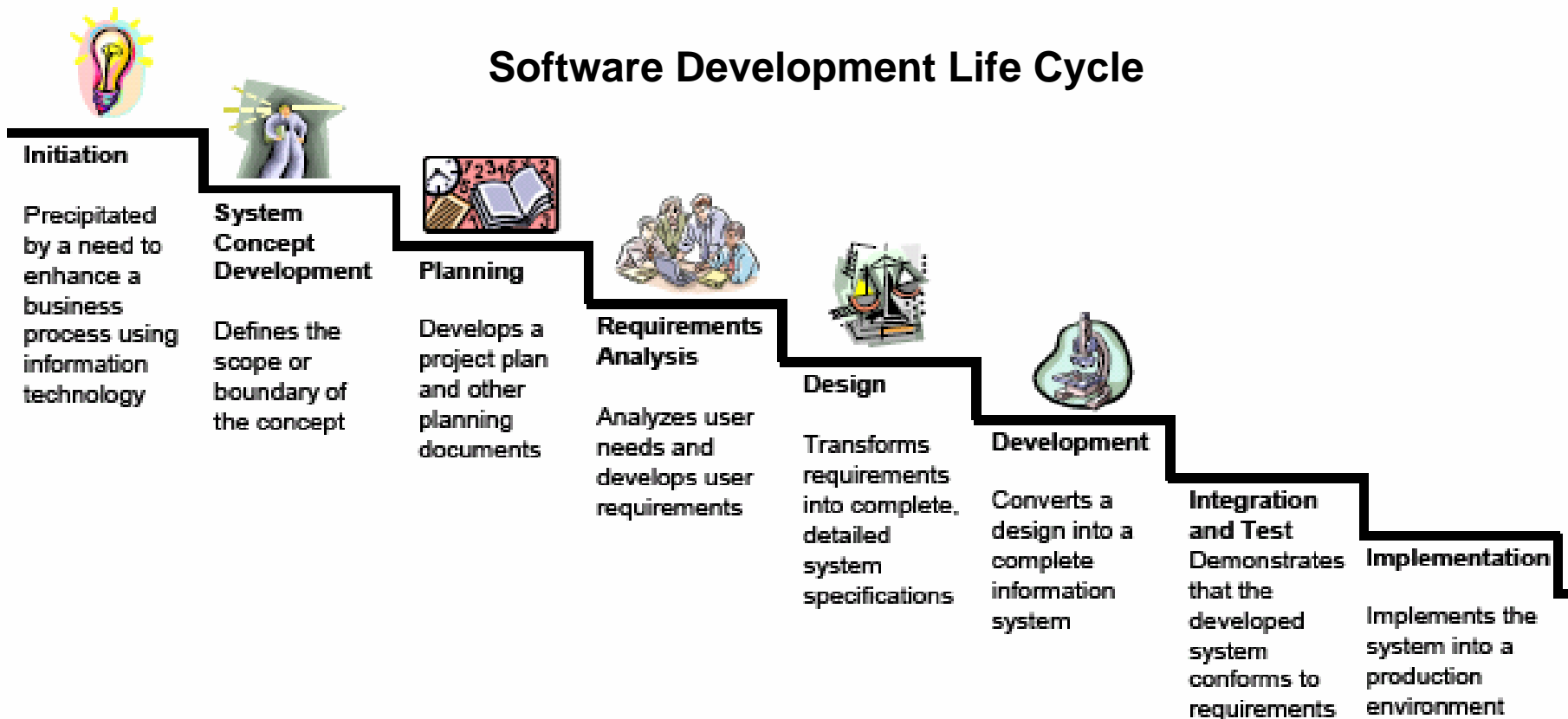
## CapWIN V2 -Key Objectives

- Maintain Existing Functionality
- Improve:
  - Stability
  - Performance
  - Functionality
  - Flexibility



# Development Process Overview

## Software Development Life Cycle

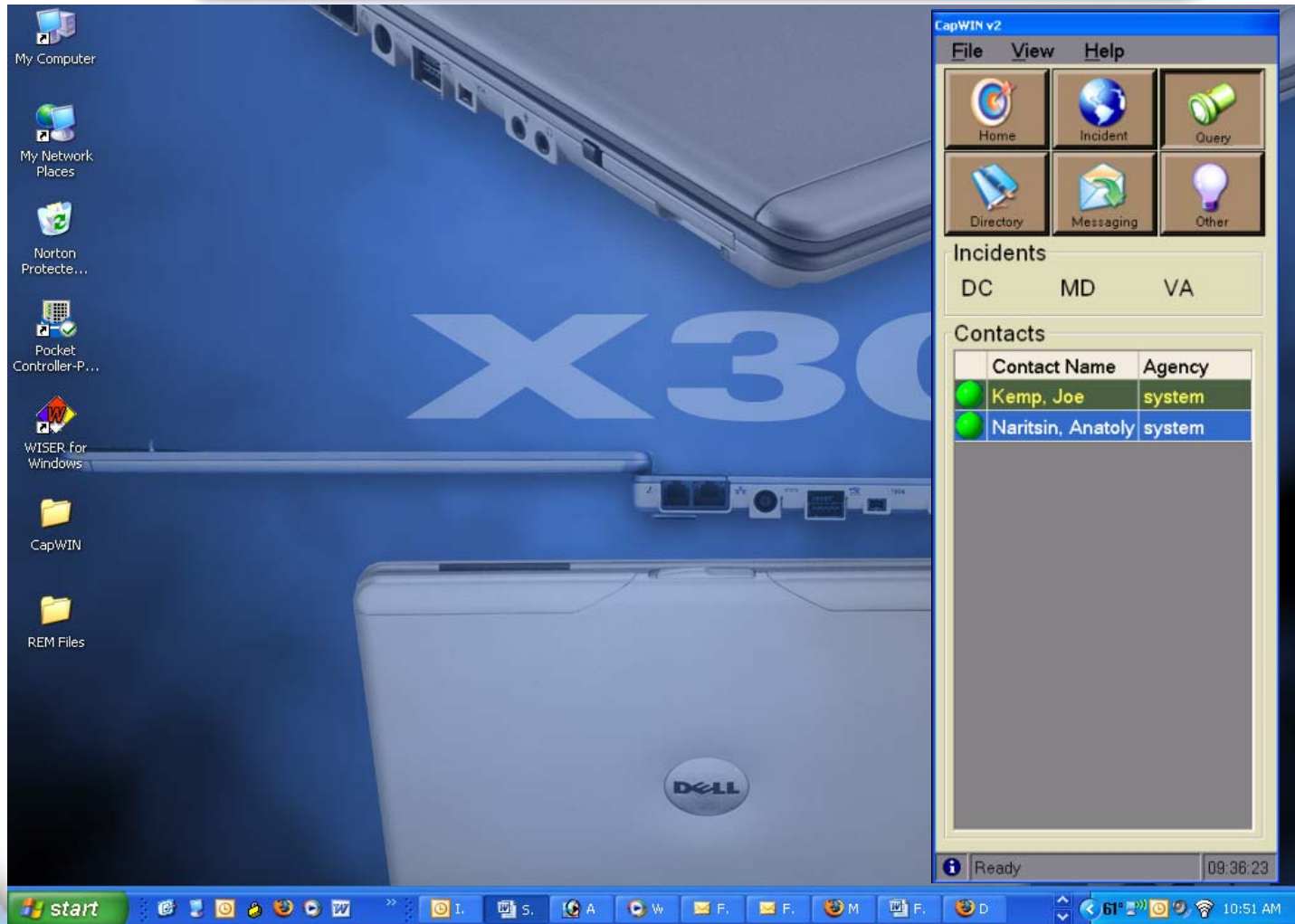


Reprinted from MD Dept. of Budget & Management, Office of Technology, Software Development Life Cycle, Volume 1

## Schedule

- Iteration 1 – Login, UI, Updating.....Completed 8/24/05
- Iteration 2 – Query subsystem.....10/24/05
- Iteration 3 – Directory, IM, Contacts.....12/01/05
- Iteration 4 – Incident Management.....1/10/06
- Final Preparation and Testing.....1/20/06
- Deployment Begins!.....January 2006
- Iteration 5 – Administration.....Begins Feb 2006

# V2 Control Center



CapWIN v2

File View Help

Home Incident Query

Directory Messaging Other

Incidents

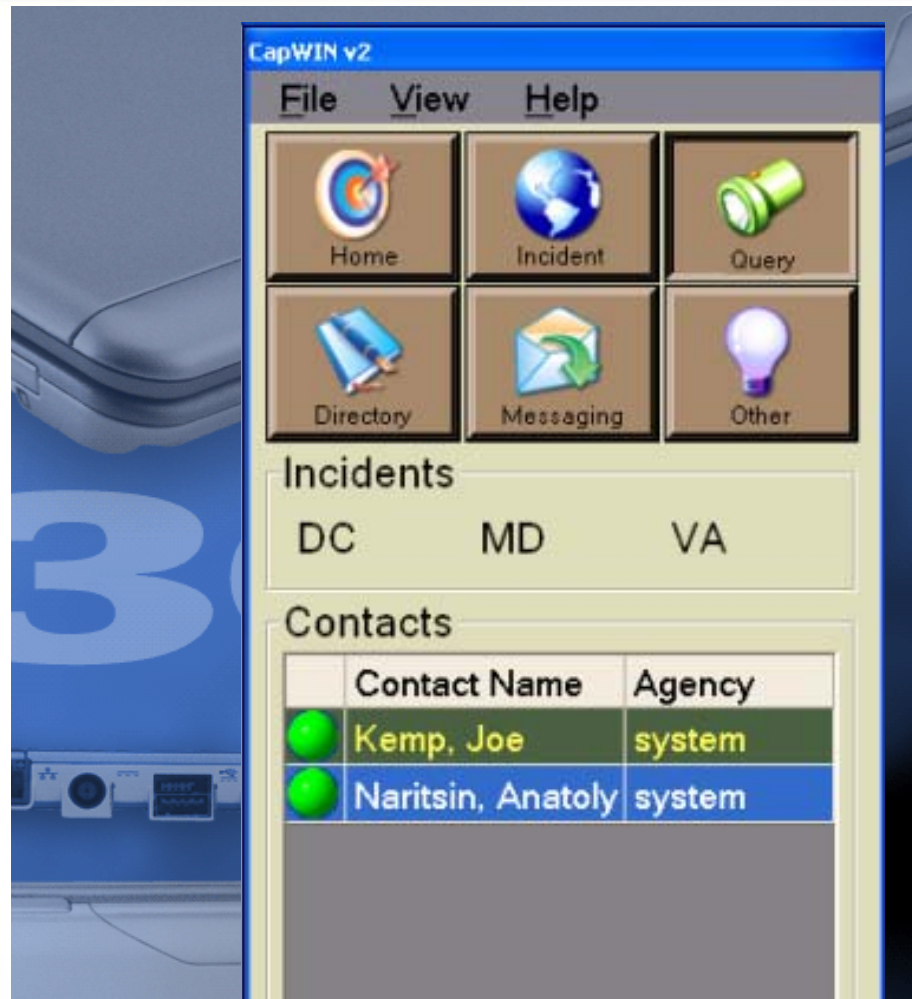
DC MD VA

Contacts

Contact Name	Agency
Kemp, Joe	system
Naritsin, Anatoly	system

Ready 09:36:23

# V2 Control Center





# V2 Query



**CapWIN v2**

File View Help

Home Incident Query

Directory Messaging Other

**Incidents**

DC MD VA

**Contacts**

Contact Name	Agency
Kemp, Joe	system
Naritsin, Anatoly	system

**Query**

Login Person Vehicle

First Name:

Middle Name:

Last Name:

Date of Birth:  /  /

Race:

Sex:

State:

**OR**

Operator's License Number:

State:

Ready 09:35:16

start I. S. A. W. F. F. M. F. D. 61° 10:51 AM

# Questions

